ABSTRACT OF THE DISCLOSURE

A synchronization (sync) signal detector and associated method detect the occurrence of a known sync signal in a received signal. The known sync signal is generated and correlated with the received signal to generate a correlation waveform. A peak value of the correlation waveform, indicative of the occurrence of the sync signal in the received signal, is detected and used to determine a timing offset between the received signal and the sync signal. The sync signal is then shifted in time to compensate for the timing offset. Such shifting of the sync signal is simpler and requires substantially less processing time and resources compared to known sync signal detection schemes, in which a received signal or the sampling timing of a received signal is shifted to compensate for timing offset.